

**AMENDMENT UNDER 37 C.F.R §1.115
U.S. Application No. 08/067797**

IN THE SPECIFICATION:

Page 19, line 14, following "progeny.", please add the following, -- IGI887J0 and IGI887J2 were deposited at the American Type Culture Collection, Rockville, MD on 13 June 1989 under accession numbers 66270 and 66272, respectively. --

IN THE CLAIMS:

Kindly cancel claim ²⁰~~28~~ and substitute therefor the following new claim ²¹~~29~~.

C -- ²¹~~29~~. Phaffia strain IGI887J0. --

Kindly add the following new claims.

C -- ²²~~30~~. A mutant strain of Phaffia IGI887J0 of claim 29 which produces at least 700 µg of astaxanthin per gram dry weight of Phaffia per six day culture period in YM medium, wherein said astaxanthin is determined by measuring the absorbance at 474 nanometers of a petroleum ether extract of Phaffia using a 1% (w/v) extinction coefficient in a 1 centimeter cuvette of 2100.

C ²³~~31~~. Phaffia strain IGI887J2.

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C-1 32. A mutant strain of Phaffia IGI887J2 of Claim 31 which produces at least 700 µg of astaxanthin per gram dry weight of Phaffia per six day culture period in YM medium, wherein said astaxanthin is determined by measuring the absorbance at 474 nanometers of a petroleum ether extract of Phaffia using a 1% (w/v) extinction coefficient in a one centimeter cuvette of 2100. *astaxanthin-producing strain 67-315*

✓ 33. *[A pigment mutant]* Phaffia producing more than 700 micrograms of astaxanthin per gram of dry yeast per six-day culture in YM medium, wherein the amount of astaxanthin is determined by measuring the absorbance at 474 nanometers of a petroleum ether extract of Phaffia using a 1% (w/v) extinction coefficient in a one centimeter cuvette of 2100.

✓ 34. The mutant yeast of claim 33, wherein said mutant yeast produces more than 900 µg of astaxanthin per gram of dry yeast.

✓ 35. The mutant yeast of claim 34, wherein said mutant yeast produces more than 1100 µg of astaxanthin per gram of dry yeast.

✓ 36. The mutant yeast of claim 35, wherein said mutant yeast produces more than 1400 µg of astaxanthin per gram of dry yeast.

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29 37. The mutant yeast of claim 36, wherein said mutant yeast produces more than 1700 µg of astaxanthin per gram of dry yeast.

30 38. The mutant yeast of claim 33, wherein said mutant yeast produces astaxanthin at a level at least two times that of naturally occurring Phaffia.

31 39. The mutant yeast of claim 38, wherein said mutant yeast produces astaxanthin at a level at least three times that of naturally occurring Phaffia.

32 40. The mutant yeast of claim 39, wherein said mutant yeast produces astaxanthin at a level at least four times that of naturally occurring Phaffia.

33 41. The mutant yeast of claim 40, wherein said mutant yeast produces astaxanthin at a level at least five times that of naturally occurring Phaffia.

34 42. The mutant yeast of claim 41, wherein said mutant yeast produces astaxanthin at a level at least six times that of naturally occurring Phaffia. --